

WHAT IS CLAIMED IS:

1. Procedure for detecting an object (3), comprising the steps
of: directing a ray of light from a source (1) generally toward an optical receiver
5 (6) guiding the fluoresced ray of light received to an optical detector (5) of optical
receiver (6), and moving an object (3) to intersect the path of light between light
source (1) and optical receiver (6), and block the light path.

2. Procedure according to Claim 1 further including the steps
10 of guiding the ray of light from light source (1) to a tilting mirror (2), reflecting
the ray of light from the mirror (2) at controlled tilt angles in the direction of
fluorescing optical receiver (6), detecting the object (3) in that tilting mirror (2)
reflects the ray of light at various tilt angles in the direction of optical receiver (6),
that the tilt angle of tilting mirror (2) is determined, at which object (3) is between
15 light source (1) and optical receiver (6), and thereby the position of object (3) is
determined.

3. Procedure according to Claim 2, wherein the motion of
tilting mirror (2) is assigned to a time, so that each tilt angle can be assigned in an
20 unambiguous manner to a time, the tilt angle is determined using the time, and the
tilt angle is assigned to a position of the edge of object (3).

4. Procedure according to Claim 3, wherein a time is assigned
to each tilt angle of tilting mirror (2), the tilt angle is measured by the guiding
25 voltage of the drive of tilt mirror (2), and the tilt angle is allocated to the position
of one edge of object (3).

5. Procedure according to Claim 4, wherein the ray of light is
polarized and is incident on object (3) at an acute angle, so that a transparent
30 object (3) is detected by optical receiver (6).

6. Sensor device (10) for detecting an object (3) comprising: a light source (1) for emitting a ray of light, and an optical receiver (6) for receiving the emitted ray of light said optical receiver (6) includes, at least, a fluorescing device (4) for fluorescing the received emitted ray of light, whereby an object (3) between light source (1) and optical receiver (6).

7. Sensor device (10) according to Claim 6, wherein said fluorescing device (4) is a fluorescing rod.

8. Sensor device (10) according to Claim 6, wherein said sensor device (10) includes a tilting mirror (2) for controlled reflection of the ray of light from light source (1), and a control device (11) for detecting the tilt angle of tilting mirror (2) and assignment of the tilt angle to a position of object (3).

9. Sensor device (10) according to Claim 8, wherein said control device (11) includes a chronometer for assignment of a measured time to a tilt angle of tilting mirror (2).

10. Sensor device (10) according to Claim 6, wherein said light source (1) includes a laser diode.

11. Sensor device (10) according to Claim 6, wherein said light source (1) includes a luminescence diode.

12. Sensor device (10) according to Claim 6, wherein said tilting mirror (2) contains a micro-mirror.